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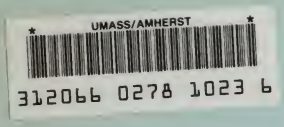


# THE MASSACHUSETTS STATE BUILDING CODE

## Users Guide to the Fifth Edition

FEB 12 1991
University of Massachusetts
Depository Copy

COMMONWEALTH OF MASSACHUSETTS

Published by
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Massachusetts Secretary of State

$1.75

904/316

*NOTE: This Guide is intended as a transition tool for users of the Massachusetts State Building Code. It is not meant as an authoritative source for all changes from either the 1987 BOCA National Building Code or the Fourth Edition of the Massachusetts State Building Code. It lists only major changes - refer to the actual code documents for definitive requirements.*

# PART I - OVERALL CHANGES

The basic concept of the Fifth Edition of the Massachusetts State Building Code is to make the code as close as possible to the 1987 BOCA National Building Code. For several reasons, it was not possible to utilize BOCA in its entirety, namely:

a) Requirements of Massachusetts General Laws (MGL)
b) Board of Building Regulations and Standards (BBRS) changes to meet specific needs of the Commonwealth
c) Requirements of Massachusetts Specialized Codes under the control of separate independent boards

The following articles, in their entirety, are non-BOCA (are to be considered unique to Massachusetts):

Article 1 - Administration
Article 10 - Fire Protection Systems
Article 11 - Structural Loads
Article 12 - Foundation Systems and Retaining Walls
Article 27 - Electrical Wiring and Equipment
Article 28 - Plumbing and Gas Fitting
Article 31 - Energy Conservation
Article 32 - Repair, Alteration and change of Use of Existing Buildings
Article 33 - Manufactured Buildings, Building Components and Mobile Homes
Article 34 - One and Two-Family Dwelling Code (not included in this code; available as a separate document from the State Bookstore, Room 116, State House, Boston, MA 02133. Tel: (617) 727-2834)

In the remaining articles, Massachusetts unique requirements are identified by being presented in bold face type.

Articles 27, 28, 31, 32, 33, and 34 in the Fifth Edition are technically the same as in the Fourth Edition of the State Building Code (there may be slight language alterations for purposes of clarity); Article 1 - Administration, is essentially the same as in the Fourth Edition, but some additions and clarification of wording has been added or changed as noted under the Article 1 change section of this document; Article 10 has some BOCA sections, but the Article is essentially unique to Massachusetts.

The number of Appendices has been reduced in the Fifth Edition as compared to the Fourth Edition. All referenced standards have been included in Part I of Appendix A following BOCA's procedure. The second part of Appendix A in the Fifth Edition contains recognized standards not specifically mentioned in the body of the code, but are sufficiently pertinent to include.

NOTE: The Fifth Edition of the State Building Code does not explicitly identify "accredited authoritative agencies" as is the case with the Fourth Edition of the Code (Appendix O). In the Fifth Edition of the Code, the requirements for an "approved agency" are found in Article 2 - DEFINITIONS, and this approach is consistent with BOCA.

In the Fourth Edition, various standards were listed by type of standard in Appendices B through I. Appendix C - Fastening Schedule, is the Fourth Edition's Nailing Schedule. The balance of the Appendices in the Fifth Edition are unique to Massachusetts and are the same as in the Fourth Edition (although Appendix alphabetical designations have changed from the Fourth Edition), namely:

Appendix D Guidance for selection of foundation material - Appendix X in the Fourth Edition

| | |
|---|---|
| Appendix E | Procedure for accounting for series and parallel heat flow paths - Appendix L in the Fourth Edition |
| Appendix F | Reference data for repair, alteration, addition and change of use of existing buildings - Appendix T in the Fourth Edition |
| Appendix G | Specialized Massachusetts rules and regulations other than those of the BBRS - Appendix P in the Fourth Edition. |
| Appendix H | Historic structures - Appendix U in the Fourth Edition. |

The Regulations of the Board of Building Regulations and Standards - Appendix Q in the Fourth Edition - is now a separate document available from the State Bookstore.

NOTE: Appendix Q of the Fifth Edition no longer requires Massachusetts accreditation of testing laboratories for the testing of solid fuel heating appliances. Approval for such devices is now controlled by the 1987 BOCA Mechanical Code (in particular Article 4) in conjunction with the definition of APPROVED AGENCY, found in Article 2 - Definitions, of the Fifth Edition.

The following Fourth Edition appendices have been deleted from the Fifth Edition:

Metric equivalents - Appendix N in the Fourth Edition.
Accredited authoritative agencies - Appendix O in the Fourth Edition.
Technical code council - Appendix R in the Fourth Edition.
Advisory boards and committees - Appendix S in the Fourth Edition, now in the Fifth Edition Foreword.
Reference Standards for one and two-family dwellings - Appendix W in the Fourth Edition, now in separate Mass. one and two-family dwelling code - a separate document.
Energy equations & other ASHRAE computer based procedures - Appendix V in the Fourth Edition.

The article numbering system in the Fifth Edition has been changed to follow BOCA's system. To the extent possible, considering the constraints mentioned in the first paragraph, section numbers also correspond to BOCA's; where non-BOCA sections are required to meet Massachusetts requirements, sections and sub-sections were added to BOCA's articles or sections. These are bolded in all articles that are not uniquely Massachusetts in their entirety.

Part II of this Guide contains a summary of major changes relative to 1987 BOCA and also relative to the Fourth Edition on an article-by-article basis.

Recognizing the potential problems and frustrations when a major code re-numbering system occurs, a cross-index of article and primary section numbers of the Fourth Edition relative to the Fifth Edition is included as Part III of this Guide (again, please note that Part III is not meant as an absolute authoritative source identifying all changes from the Fourth Edition - refer to the actual code for definitive requirements).

# PART II - SUMMARY OF CHANGES TO EACH ARTICLE

CAUTION

**These summaries are meant as a transition tool for users of the Fifth Edition of the Massachusetts State Building Code. They are not meant as an authoritative source for all changes either from the 1987 BOCA National Building Code or the Fourth Edition of the Massachusetts State Building Code. Always refer to the actual code documents for definitive requirements.**

Part II of this Guide contains brief summaries of the major changes from 1987 BOCA National Building Code, and also from the Fourth Edition of the Massachusetts State Building Code.

## ARTICLE 1 - ADMINISTRATION and ENFORCEMENT

**(Fourth Edition Article 1)**

### Differences from 1987 BOCA

Article 1 is entirely unique to Massachusetts.

### Changes from the Fourth Edition of the Massachusetts State Building Code

Table 108 reflects some changes in use group designation. Use group E has been added and replaces the Fourth Edition's A-4 designation for schools. In addition, E is used to designate child day care centers (section 633).

> **Note:** Child day care centers licensed by the Massachusetts Office of Children housing children more than two(2) years and nine(9) months of age are classified in use group E. Licensed centers for children two(2) years and nine(9) months in age or younger are in use group I-2.

Use group I-1 of the Fourth Edition is now I-3, Institutional, restrained. The I-1 use group has been deleted (BOCA uses I-1 for board and care facilities, half-way houses, group homes, alcohol and drug centers, convalescent facilities). The Fifth Edition has these uses in R-1, R-3, R-4 or R-5.

Added section 114.1.1 - Railroad Right of Way; 114.1.2 - Water Supply; and 114.1.3 - Removal of Debris from work being conducted on existing buildings.
Clarified the language in 114.8 - Approval in Part.

## ARTICLE 2 - DEFINITIONS

**(Fourth Edition Article 2, Sections 200 - 201)**

### Differences from 1987 BOCA

All definitions from 1987 BOCA appear in this Article. In a few instances, the wording was modified to reflect Massachusetts law or clarification from MA definitions.

Added to the definition list were items specific to Massachusetts (Inspector of Buildings, local inspectors, and the like). A number of energy definitions from the Mass Code were added to the list.

### Changes from the Fourth Edition of the Massachusetts State Building Code

As a result of following the BOCA model, there are several definitions in the fourth edition that are not included in the Fifth Edition of the Massachusetts Code. In general, the summary definition of many of these terms were not definitive and could be misleading; the terms are more fully defined in appropriate sections and/or REFERENCED STANDARDS listed in Appendix A.

## ARTICLE 3 - USE GROUP CLASSIFICATION

**(Fourth Edition Article 2, Sections 202 - 213)**

### Differences from 1987 BOCA

Article 3 is mostly BOCA. Changes occur relative to Massachusetts General Laws and regulations (CMR's) as is evident in subsection 300.2. Other modifications have been made in subsections 302.1, 307.4, 309.6, 313.1.1, 313.1.2, 313.1.3 and 313.1.4 which reflect recent code change proposals voted by the BBRS.

Subsection 304.1.1 alters the age requirement for child day care facilities to 2 years 9 months and eliminates the restriction of more than five persons in order to remain consistent with Massachusetts Office for Children Regulations.Also, subsection 309.6 has been added to accommodate the requirements of the limited group residence which is categorized under use group R-5 (see Section 636.0).

Finally, the I-1 use group has been deleted (see Section 307.2) to be consistent with Massachusetts requirements that these types of facilities remain as use group R.

### Changes from the Fourth Edition of the Massachusetts State Building Code

The Fourth Edition of the code classifies child day care facilities as use group A-4. Educational uses such as this in the BOCA code, however, are categorized under the E use group. This change occurs in subsection 304.1.1 and is carried through other applicable portions of the Fifth Edition; also, Use Group T has been deleted. Structures that would normally fall under this category in the Fourth Edition would now be part of the use group U. There is a special use in Article 6 entitled, Temporary Structures (626.0), that encompasses tents, membrane structures and the like.

## ARTICLE 4 - TYPE OF CONSTRUCTION CLASSIFICATION

**(Fourth Edition Article 2, Sections 214 - 218)**

### Differences from 1987 BOCA

Article 4 is mostly BOCA. Changes occur in subsections 400.2, 401.4.3 and 401.4.4 relative to Massachusetts General Laws and CMR's.

### Changes from the Fourth Edition of the Massachusetts State Building Code

The major change in Article 4 relates to the designation of building construction types. Although titles appear somewhat different in Table 401, (Table 214 in the Fourth Edition) construction types 1 and 2 remain the same. The Fourth Edition creates a subcategory of type 3 construction entitled Heavy timber. BOCA designates this type of construction as type 4. This, of course, necessitates a regrouping

of the remaining Fourth Edition construction types. Simply, the conversion is as follows:

| Fourth Edition Construction Types | Fifth Edition Construction Types |
|---|---|
| 3A | 4 |
| 3B | 3A |
| 3C | 3B |
| 4A | 5A |
| 4B | 5B |

## ARTICLE 5 - GENERAL BUILDING LIMITATIONS

**(Fourth Edition Article 3)**

### Differences from 1987 BOCA

Article 5 is mostly BOCA. Change occurs in subsection 511.1 to reflect proper procedure for issuing a permit for temporary construction of a temporary structure (now under the U use group). Also, section 512.0 has been revised to accommodate Massachusetts regulations regarding accessibility for the physically handicapped.

BOCA verbiage concerning Section 513.1 has been eliminated and reference to Section 635.0, Historic Buildings, under the special use category, and Appendix H for Historic buildings, have been substituted.

Table 501 (Table 305 in the Fourth Edition) has been edited to reflect the deletion of use group I-1 and the regrouping of the construction types (see Changes to Article 4 for conversions).

### Changes from the Fourth Edition of the Massachusetts State Building Code

This article (Article 3 in the Fourth Edition of the Mass. Code) no longer contains the provisions for "Fire Limits" and "Restrictions Within Fire Limits" (Sections 301, 302 and Table 302 of the Fourth Edition). The concerns of these deleted sections, are, however, addressed in other sections of the Fifth Edition, particularly in Section 906, Exterior Walls, and Section 907, Exterior Opening Protectives. These sections provide a much more sophisticated approach which includes consideration of Use Group, percentage and location of openings, as well as fire separation distances to address the fire protection of the exterior wall. With this change, cities and towns which have not designated "Fire Limits", but which may well have the conditions (density of buildings, exterior exposure and accessibility) that allow the spread of fire between buildings, have enforceable code for these conditions.

Table 501 of the Fifth Edition contains changes reflecting the addition of Use Group E and Type 4 and 5 construction.

Table 501.4, PERCENT REDUCTION OF AREA LIMITS (Table 305.4 in the Fourth Edition) reflects the 1987 BOCA Code reductions, which generally are somewhat higher than in the Fourth Edition.

## ARTICLE 6 - SPECIAL USE AND OCCUPANCY

**(Fourth Edition Article 4)**

### Differences from 1987 BOCA

Article 6 is consistent with BOCA from Sections 600.0 to 626.0 barring any changes due to Massachusetts laws and regulations or recent BBRS voted code change proposals; sections 600.1.1, 600.8, 600.8.1, 602.9.1, 609.2.4, 617.1, 619.1, 619.4, 620.1, 622.2, 625.1, 625.5.1, 625.5.3, 625.6.1, 625.7.1, 625.8, 625.9, 625.9.2, 625.9.3 and 625.9.4 illustrate these changes.

Sections 627.0 to 638.0 are additional articles that are unique to Massachusetts (these sections do not appear in BOCA 1987), and Section 602.3.1.4.6 has been revised to require smoke-proof enclosures.

### Changes from the Fourth Edition of the Massachusetts State Building Code.

All changes relating to use groups and construction types have been carried through (see Changes to Articles 3 and 4).

> NOTE:
> Portions of subsections 600.1.1, 600.2, 600.3, 600.4, 600.5, 600.6, 600.7 and 600.8 have been inadvertently bolded; these are not changes and will be changed during the amendment process.

## ARTICLE 7 - INTERIOR ENVIRONMENTAL REQUIREMENTS

**(Fourth Edition Article 5)**

### Differences from 1987 BOCA

Article 7 is a mix of 1987 BOCA and the Fourth Edition of the Massachusetts code with subsections 701.1, 703.2, 706.1, 707.1, 708.3, 708.2, 709.1, 711.1, 711.2 and 713.1 being somewhat altered from exact 1987 BOCA text and subsection 709.4 has been added.

Subsections 701.1, 711.1 and 711.2 do not refer to an I-1 Use Group as the Fifth Edition of the code does not employ the I-1 definition (these uses would now be E, I-2 or R-5 uses - see Articles 2 and 6 of the Fifth Edition of the code).

Subsection 703.2 contains language expanding the general requirements for ventilation and subsections 706.1, 707.1, 708.1, 708.2, 709.1 and 713.1 contain requirements unique to Massachusetts regarding mechanical ventilation, ceiling heights, floor areas and window cleaning safeguards respectively - all such requirements reflecting retained Fourth Edition requirements or recent amendments or Mass. General Law. Subsection 709.4 language and requirements are retained from the Fourth Edition.

### Changes from the Fourth Edition of the Massachusetts State Building Code

Subsection 706.1 requires that bathrooms and toilet rooms be mechanically vented - no longer will natural ventilation be allowed (in accordance with amendments to the Fourth Edition of the code). Subsection 708.1 contains clarifying language relative to the absolute minimum allowed ceiling height in habitable rooms.

NOTE:
Sections 706.2, 706.2.1, 706.2.2, 706.3, 706.4, 708.1.1, 708.1.2 and 708.1.3 - p. 7-3 to 7-5: These sections have been inadvertantly bolded; these are not changes and should not be bolded.

Sections 707.1 and 709.4 - p. 7-4 and 7-6, represent differences from 1987 BOCA and should be bolded (they are currently not bolded).

## ARTICLE 8 - MEANS OF EGRESS

**(Fourth Edition Article 6)**

### Differences from 1987 BOCA

Article 8 contains a mix of both 1987 BOCA and Massachusetts requirements although Article 8 predominantly reflects BOCA requirements. Subsections 801.2, 804.2, 805.2, 805.3, Table 807, Table 808, Table 809.3, 809.3, 809.3.1, 809.4, 810.4, 810.4.1, 812.2, 812.2.3, 812.4.1, 812.4.3, 812.7, 815.3, 816.2, 816.4.1, 818.2, 818.7.7, 820.2, 823.1, 823.2, 823.4, 824.4 and 827.2 are altered from exact 1987 BOCA text ( 805.3 and 812.7 are added subsections tied to Mass. requirements per the Fourth Edition of the code and Mass. general law respectively).

Subsections 801.2, Table 807, Table 808, 809.4, 810.4, 810.4.1 and 812.2.3 no longer refer to an I-1 Use Group as the Fifth Edition of the code does not employ the I-1 definition; subsection 812.2 does not except the R-3 Use group from the requirement for having two egress doorways (this is a long-standing Massachusetts requirement). Subsection 804.2 contains clarifying language as to the building official's required actions; subsections 805.2, 805.3, 809.3, 809.3.1, 812.4.1, 812.7 and 815.3 reflect the intent of the Fourth Edition of the code regarding maintenance of egress components, buildings allowed to have one exit, locking requirements for apartment housing, and maximum ramp slope requirements for handicapped access respectively (such differences from 1987 BOCA due to intent of the existing Fourth Edition of the code and/or Mass. general law).

### Changes from the Fourth Edition of the Massachusetts State Building Code

Subsections 804.2, 809.3, 809.3.1, 816.2, 818.7.7, 823.4 and 824.4 reflect changes to the Fourth edition of the code.

Subsection 804.2 requires the Building Official to issue a written violation notice in matters related to unsafe means of egress. Subsections 809.3 and 809.3.1 clarify under what circumstances and by Use Group, what buildings may have one exit. Subsection 816.2 imposes dimensional requirements on all stairways, whether interior or exterior, required exitway stairways or not. Subsections 818.7.7, 823.4 and 824.4 identify the potentially governing standards relating to both standby and emergency power requirements.

## ARTICLE 9 - FIRERESISTIVE CONSTRUCTION

**(Fourth Edition Article 9)**

### Differences from 1987 BOCA

Article 9 is nearly identical to BOCA. The only changes occur in Sections 904.4.1, 905.1 and 925.1 relating to Massachusetts General Laws and CMR's.

### Changes from the Fourth Edition of the Massachusetts State Building Code

As mentioned in the text of Changes to Article 5, the major revision to this article is the inclusion of the fire separation requirements under Section 906.0.

## ARTICLE 10 - FIRE PROTECTION SYSTEMS

**(Fourth Edition Article 12)**

### Changes from the Fourth Edition of the Massachusetts State Building Code

Article 10 - FIRE PROTECTION SYSTEMS consists of the 3/1/90 amended Fourth Edition (Article 12 of the Fourth Edition) of the code plus those amendments adopted as a result of the "Emergency" public hearing held on July 24, 1990 - those amendments associated with the emergency public hearing were required to be incorporated into the Fourth Edition, Article 12 - FIRE PROTECTION SYSTEMS, supplementing the Article as it was amended 3/1/90; additionally, portions of 1987 BOCA are found in subsections 1019, 1020 and 1021.

**DUE TO THE UNIQUE REQUIREMENTS IMPOSED IN ARTICLE 10 OF THE FIFTH EDITION, THE READER IS CAUTIONED TO CAREFULLY REVIEW THIS ARTICLE WHICH EXISTS AS A HYBRID OF THE RECENTLY AMENDED FOURTH EDITION OF THE MASSACHUSETTS STATE BUILDING CODE AND THE 1987 BOCA BUILDING CODE.**

## ARTICLE 11 - STRUCTURAL LOADS

**(Fourth Edition Article 7)**

### Differences from 1987 BOCA

Article 11 is considered uniquely Massachusetts code. In reality, it shares much of the same text as the BOCA code. Many sections and subsections, however, contain information that differs, either subtly or substantially, from the model code. Because of the number of changes, the text has been intentionally left unbolded. This article should be carefully examined and should **not** be regarded as equivalent to BOCA.

### Changes from the Fourth Edition of the Massachusetts State Building Code

Article 11 is similar to that of the Fourth Edition. Changes do occur, however, in Sections 1111.0 regarding determination of snow loads, as well as in Section 1112.0 for wind loads. Again, these changes have been intentionally left unbolded. Care should be taken in reading this article, for it is neither purely BOCA nor purely the Fourth Edition Massachusetts code.

## ARTICLE 12 - FOUNDATION SYSTEMS AND RETAINING WALLS

**(Fourth Edition Article 7, Sections 720 -744)**

### Differences from 1987 BOCA

Like Article 11, this article is considered unique to Massachusetts. Again, much of the text is borrowed from the BOCA code, however, because of local soil conditions and weather patterns, many sections

and subsections have been modified. The text, as in Article 11, was left intentionally unbolded. This article, too, should be carefully examined throughout, and should **not** be regarded as equivalent to BOCA.

### Changes from the Fourth Edition of the Massachusetts State Building Code

Many subtle language changes have been interspersed throughout the text, mostly for purposes of clarification. A fairly significant language modification was made to Section 1213.6 (Section 732.4 the Fourth Edition), paragraph number 2 concerning columns supported on piles.

Also, Sections 1222.0, 1223.0 and 1224.0 were taken directly from BOCA as no clear, comparable text exists in the Fourth Edition.

Finally, the Fourth Edition Section 744.0 entitled, Design Requirements for Construction in Floodplains, has been relocated to Article 21, Section 2102.0, and re-titled, Flood Resistant Construction (the title and location are the only changes, however; the text remains consistent with the Fourth Edition).

## ARTICLE 13 - MATERIALS AND TESTS

**(Fourth Edition Article 8, Part A)**

### Differences from 1987 BOCA

Article 13 is identical to the 1987 BOCA code, there have not been any changes.

### Changes from the Fourth Edition of the Massachusetts State Building Code

The Fourth Edition of the code divides Article 8 into three subarticles; 8A, 8B and 8C. The 1987 BOCA code dedicates separate articles for each topic covered in these sections. This method is more easily referenced, and, as such, has been carried through in the Fifth Edition. Aside from updating standards and methods of practice, no substantive changes have been made over the Fourth Edition, Materials and Tests.

## ARTICLE 14 - MASONRY

**(Fourth Edition Article 8, Part B, Sections 834 - 839, 850, 851)**

### Differences from 1987 BOCA

Article 14 is identical to the 1987 BOCA code, there have not been any changes.

### Changes from the Fourth Edition of the Massachusetts State Building Code

Apart from the reorganization of subarticles as outlined in the Changes to Article 13, there have not been any substantive changes to the masonry portion of the code. Revisions due to updates in standards and methods of practice do, however, occur.

## ARTICLE 15 - CONCRETE

**(Fourth Edition Article 8, Part B, Sections 840 -848)**

### Differences from 1987 BOCA

Article 15 is identical to BOCA except that Section 1501.0, Seismic Design Provisions, has been deleted. Instead, reference is made to Section 1113.0 which details all seismic requirements for buildings and structures.

### Changes from the Fourth Edition of the Massachusetts State Building Code

See Changes to Article 13 for modifications regarding the reorganization of subarticles. Also, changes due to updates in standards and methods of practice occur.

## ARTICLE 16 - GYPSUM AND PLASTER

**(Fourth Edition Article 8, Part A, Sections 819 - 823)**

### Differences from 1987 BOCA

Article 16 is identical to BOCA.

### Changes from the Fourth Edition of the Massachusetts State Building Code

Apart from the changes outlined in the Changes to Article 13, there have not been any substantive changes in the gypsum and plaster portions of the code. Some standards and methods of practice have been updated.

## ARTICLE 17 - WOOD

**(Fourth Edition Article 8, Part B, Sections 852 - 856)**

### Differences from 1987 BOCA

Article 17 is mostly BOCA. Changes occur due to Massachusetts General Law and recently voted BBRS code changes.

Subsection 1701.1.2 prescribes the regulations governing the use of native lumber in the state. Table 1701, found in Article 21 of the Fourth Edition has been pulled into this article for ease of reference.

### Changes from the Fourth Edition of the Massachusetts State Building Code

See Changes to Article 13 for modifications due to reorganization of subarticles. Some standards and methods of practice have been updated.

## ARTICLE 18 - STEEL

**(Fourth Edition Article 8, Part B, Sections 826 - 832)**

### Differences from 1987 BOCA

Article 18 is identical to BOCA, there have not been any changes.

### Changes from the Fourth Edition of the Massachusetts State Building Code

See Changes to Article 13 for modifications due to reorganization of subarticles. Some updates of standards and methods of practice have been made.

## ARTICLE 19 - LIGHTWEIGHT METAL ALLOYS

**(Fourth Edition Article 8, Part B, Section 833)**

### Differences from 1987 BOCA

Article 19 is identical to BOCA, there have not been any changes.

### Changes from the Fourth Edition of the Massachusetts State Building Code

See Changes to Article 13 for modifications regarding reorganization of subarticles.

## ARTICLE 20 - PLASTIC

**(Fourth Edition Article 8, Part C, Section 865, 876; Article 19)**

With the exception of the addition of subsection 2002.5 which is a requirement of the Massachusetts Department of Public Health banning the use of "urea based foamed-in-place insulation", Article 20 is the same as 87 BOCA.

## ARTICLE 21 - EXTERIOR WALLS

**(Fourth Edition Article 8, Part C, Sections 857 - 876)**

### Differences from 1987 BOCA

Article 21 is mostly BOCA. Section 2102.0, Flood Resistant Construction, is consistent only with the title of the comparable BOCA section. Although this section shares many of the same ideas as the BOCA text, it should be considered unique to Massachusetts.

### Changes from the Fourth Edition of the Massachusetts State Building Code

As described in Changes to Article 12, the Fourth Edition Section 744.0, Design Requirements for Construction in Floodplains, has been renamed, Flood Resistant Construction, and relocated to Section 2102.0 in the Fifth Edition. This modification was made to remain consistent with the BOCA numbering system.

See Changes to Article 13 for additional changes due to reorganization of subarticles.

## ARTICLE 22 - VERTICAL AND SLOPED GLASS AND GLAZING

**(Fourth Edition Sections 1905,1910)**

### Differences from 1987 BOCA

Article 22 is primarily 1987 BOCA in content with exceptions tied to Mass. law or references to Article 11 (ARTICLE 11, STRUCTURAL LOADS), related to Mass. requirements.

Subsections 2201.1, 2201.2, 2202.1, 2202.1.1, 2203.1 and 2206.1.1 are impacted.
Subsections 2201.1 and 2203.1 reference Massachusetts General Laws c143 ss 3T, U and V, rather than CPSC 16 CFR cited in BOCA. Subsections 2201.2, 2202.1, 2202.1.1 and 2206.1.1 identify the governing sections of Article 11 - STRUCTURAL LOADS, as they relate to Mass. loading requirements.

### Changes from the Fourth Edition of the Massachusetts State Building Code

For the initial release of the Fifth Edition of the State Building Code, Subsection 2202.1.1 replaces the nomogram (Table 857.5.4.2) of the Fourth Edition of the Code.

## ARTICLE 23 - ROOFS AND ROOF COVERINGS

**(Fourth Edition Sections 926, 1904)**

### Differences from 1987 BOCA

Article 23 is identical to BOCA, there have not been any changes.

### Changes from the Fourth Edition of the Massachusetts State Building Code

Information regarding roofs and roof coverings is scattered about the Fourth Edition; Articles 8, 9, 21 etc. Article 23 is a more easily referenced section.Changes in this article are limited to updating to modern standards and principles.

## CHANGES TO ARTICLE 24 - MASONRY FIREPLACES

**(Fourth Edition Article 10, Section 1007)**

### Differences from 1987 BOCA

Article 24 is identical to BOCA with the exception of paragraph number 2, Section 2402.1.This exception was added to reflect a recent BBRS code change.

### Changes from the Fourth Edition of the Massachusetts State Building Code

The Fourth Edition contains an Article 10 which is dedicated to chimneys, flues and vent pipes. The BOCA format allows control of these matters to be governed by the BOCA National Mechanical Code. This concept is followed in the Fifth Edition of the code. BOCA also maintains this article, Masonry Fireplaces, to provide more easily referenced material. The Fourth Edition scatters much of this information throughout the code; Article 21, etc.

## ARTICLE 25 - MECHANICAL EQUIPMENT AND SYSTEMS

**(Fourth Edition Article 11)**

### Differences from 1987 BOCA

Article 25 is primarily 1987 BOCA in content with the addition of Massachusetts requirements directed toward boiler rooms, solid fuel burning heating appliances and power venters.

Subsections 2500.1, 2500.2, 2500.3 (added), all of subsections 2511, 2512 and 2513 (these subsections also added), are impacted.

Subsection 2500.1 scope is expanded to address solid fuel burning heating appliances and power venters. Subsection 2500.2 references building code as well as BOCA Mechanical Code requirements. Subsection 2500.3 identifies governing Mass. regulations for fuel gas and oil burning equipment and for the control of boilers, pressure vessels etc. and all of sections 2511, 2512 and 2513 incorporate Mass. regulations related to boiler rooms, solid fuel burning appliances and power venters (the control of boiler rooms is per Fourth Edition requirements; the regulation of solid fuel burning heating appliances is now a hybrid of Mass. and BOCA requirements and power venter regulations reflect recent formal interpretations issued by the BBRS).

### Changes from the Fourth Edition of the Massachusetts State Building Code

Section 2512 - SOLID FUEL BURNING HEATING APPLIANCES regulations have been altered from requirements imposed in the Fourth Edition of the Mass. Building Code. No longer will there be a Massachusetts controlled certification program regarding these heating appliances.

Section 2513 - POWER VENTERS (POWER EXHAUSTERS): As a result of recent formal interpretations of the BBRS, power venters are now explicitly regulated in the Fifth Edition of the Code.

## ARTICLE 26 - ELEVATOR, DUMBWAITER AND CONVEYOR INSTALLATION AND MAINTENANCE

**(Fourth Edition Article 16)**

### Differences from 1987 BOCA

Article 26 is similar to BOCA. Many changes occur due to Massachusetts General Laws and CMR's. These modifications are interlaced throughout the article and are easily identifiable by bold faced print.

Additional changes were made due to jurisdictional relationships. BOCA terms the individual in charge of elevator inspection as the code official. In the Fifth Edition, the term state elevator inspector is used; ie: Section 2601. Also, overlapping authority occurs in a number of instances due to local laws, ordinances etc. So as not to infringe upon the rights of other organizations the term, authority having jurisdiction is substituted for the BOCA language.

Frequency of inspection has been modified, too, as illustrated in Section 2602.1; Section 2610.2 reflects a recently voted BBRS code change, and finally, Section 2602.5.3, Manlifts, has been deleted. Manlifts are prohibited in the State of Massachusetts.

### Changes from the Fourth Edition of the Massachusetts State Building Code

Article 16 of the Fourth Edition is merely a reference to applicable Massachusetts CMR's. The Fifth Edition, Article 26 presents additional information regarding elevators, dumbwaiters, and conveyor equipment. This information is to be used as a supplement to the Massachusetts regulations. Article 26 is **not** to be considered the sole source governing maintenance and installation of these items. As stated in the Fourth Edition, Chapter 143, Section 69 of the Massachusetts General Laws Annotated, as amended, provides that elevators, dumbwaiters, moving stairways (escalators), and moving walks shall be installed, relocated, or materially changed in conformance with Elevator and Escalator Regulations (524 CMR 3.00), and Elevator, Dumbwaiter, Escalator and Moving Walk Regulations (524 CMR 15.0 through 33.00) promulgated by the Board of Elevator Regulations of the Commonwealth of Massachusetts, Department of Public Safety, holds true for the Fifth Edition as well. These regulations are referred to as 524 CMR and Modifications throughout the text.

## ARTICLE 27 - ELECTRICAL WIRING AND EQUIPMENT

**(Fourth Edition Article 15)**

### Differences from 1987 BOCA

Article 27 as it appears in the 1987 BOCA code has been deleted in its entirety. This subject is regulated separately in the state of Massachusetts. The Fifth Edition, Article 27 references appropriate Massachusetts General Laws and CMR's.

### Changes from the Fourth Edition of the Massachusetts State Building Code

There have not been any changes from the Fourth Edition.

## ARTICLE 28 - PLUMBING AND GAS FITTING

**(Fourth Edition Article 17)**

### Differences from 1987 BOCA

Article 28 as it appears in the 1987 BOCA code has been deleted in its entirety. The Fifth Edition, Article 28 is also a subject that is regulated by other authorities. This article references the appropriate Massachusetts General Laws and CMR's.

### Changes from the Fourth Edition of the Massachusetts State Building Code

There have not been any changes from the Fourth Edition.

## ARTICLE 29 - SIGNS

**(Fourth Edition Article 14)**

### Differences from 1987 BOCA

Article 29 is similar to BOCA. Some changes occur in Sections 2900.3, 2900.4, 2902.4.1, 2906.1, 2907.3, 2914.1, 2915.2 due to Massachusetts General Laws and CMR's.

NOTE:
Sections 2900.3 and 2902.4.1 have been inadvertently left unbolded. (They are unique to Massachusetts and should be bolded; to be revised during amendment process.)

### Changes from the Fourth Edition of the Massachusetts State Building Code

There has been little change from the Fourth Edition, except in terms of updated standards and practices.

## ARTICLE 30 - PRECAUTIONS DURING BUILDING OPERATIONS

**(Fourth Edition Article 13)**

### Differences from 1987 BOCA

Article 30 is mostly BOCA. Changes occur in Sections 3000.2.1, 3007.1.2, 3015.1, 3018.3 and 3021.1 due to Massachusetts General Laws and CMR's.

### Changes from the Fourth Edition of the Massachusetts State Building Code

There has been little change to this article over the Fourth Edition, except in terms of updated standards and practices.

## ARTICLE 31 - ENERGY CONSERVATION

**(Fourth Edition Article 20)**

### Differences from 1987 BOCA

Article 31 - ENERGY CONSERVATION is taken in its entirety from the Fourth Edition of the code (Article 20 of the Fourth Edition) and is unique to Massachusetts.

### Changes from the Fourth Edition of the Massachusetts State Building Code

The only changes to Article 31 (formerly Article 20 of the Fourth Edition) are non-technical clarification comments and these are primarily related to the use of certain computer software for analysis in Sections 3113.5 and 3114.5 of this Article.

## ARTICLE 32 - EXISTING BUILDINGS

**(Fourth Edition Article 22)**

The BBRS voted to retain the existing buildings provisions of the Fourth Edition of the Mass Code.

This Article, therefore, is the same as in the Fourth Edition, except for Article numbering. It is the former Article 22 of the Fourth Edition.

## ARTICLE 33 - MANUFACTURED BUILDINGS

**(Fourth Edition Article 18)**

There is no equivalent section in BOCA; this Article is the same as in the Fourth Edition, except for Article numbering (Article 18 in the Fourth Edition).

## ARTICLE 34 - ONE AND TWO FAMILY DWELLINGS

**(Fourth Edition Article 21)**

It is the intent to adopt the CABO One and Two Family Dwelling Code with changes as required. Time prevented the complete review of the CABO code, therefore we are carrying the Fourth Edition version into the Fifth Edition for the present (Article 21 in the Fourth Edition).

This Article has been deleted from the Fifth Edition main code document and is available from the State Bookstore as the Mass. One and Two-Family code, which contains Article 21 of the Fourth Edition (now Article 34), and Article 1 - Administration and Enforcement. Article 1 is the Fifth Edition Article 1.

# PART III - CROSS REFERENCE BY ARTICLE

**CAUTION**

**This cross-index is meant as a transition tool for users of the Fifth Edition of the Massachusetts State Building Code. It is not meant as an authoritative source for all changes either from the 1987 BOCA National Building Code or the Fourth Edition of the Massachusetts State Building Code. Always refer to the actual code documents for definitive requirements.**

The Table in Part III has been developed for those who are accustomed to using the Fourth Edition and previous editions of the Massachusetts State Building Code. The first column lists article and primary section numbers in the Fourth Edition; the second column gives the article and section number in the Fifth Edition. Where there is no corresponding section title in the Fifth Edition, the sections where the topic is covered are listed.

Review of the table emphasizes that many section names are the same in the Fifth Edition as the Fourth Edition; section and article numbers tend to be different, however.

Some of the major differences include:

Article 2 of the Fourth Edition - Definitions & Classification - is now covered in three (3) articles in the Fifth Edition, corresponding to 1987 BOCA National Building Code numbering system, namely:

Article 2 - Definitions
Article 3 - Use Group Classification
Article 4 - Type of Construction Classification

Article 7 of the Fourth Edition - Structural and Foundation Loads and Stresses - is now covered in two (2) articles in the Fifth Edition:

Article 11 - Structural Loads
Article 12 - Foundations Systems and Retaining Walls

Article 8 of the Fourth Edition is divided into three parts: Part A, Materials and Tests; Part B, Steel, Masonry, Concrete, Gypsum and Lumber Construction; and Part C, Building Enclosures, Walls, and Wall Thickness. In the Fifth Edition, the subjects are covered primarily in eight (8) articles:

Article 13 - Materials and Tests
Article 14 - Masonry
Article 15 - Concrete
Article 16 - Gypsum and Plaster
Article 17 - Wood
Article 18 - Steel
Article 19 - Lightweight Metal Alloys
Article 20 - Plastics
Article 21 - Exterior Walls

Article 10 of the Fourth Edition - Chimneys, Flues and Vent Pipes, has no equivalent article in the Fifth Edition or BOCA - reference is generally made to the BOCA National Mechanical Code, although there are some references to some of the subjects in other articles and sections of the Fifth Edition.

The balance of the articles in the Fourth Edition have an equivalent article in the Fifth Edition.

| FOURTH EDITION Table of Contents | | FIFTH EDITION Article Cross Reference | |
|---|---|---|---|
| **Article 1 - ADMINISTRATION AND ENFORCEMENT** | | **Article 1 - ADMINISTRATION AND ENFORCEMENT (Same as Fourth Edition)** | |
| 100.0 | Scope | 100.0 | Scope |
| 101.0 | Applicability | 101.0 | Applicability |
| 102.0 | Ordinary repairs | 102.0 | Ordinary repairs |
| 103.0 | Installation of service equipment | 103.0 | Installation of service equipment |
| 104.0 | Maintenance | 104.0 | Maintenance |
| 105.0 | Change in existing use | 105.0 | Change in existing use |
| 106.0 | Alterations and repairs | 106.0 | Alterations and repairs |
| 107.0 | Building department | 107.0 | Building department |
| 108.0 | Duties and powers of the building official and state inspector | 108.0 | Duties and powers of the building official and state inspector |
| 109.0 | Rules and regulations | 109.0 | Rules and regulations |
| 110.0 | Approval | 110.0 | Approval |
| 111.0 | Inspection | 111.0 | Inspection |
| 112.0 | Right of entry | 112.0 | Right of entry |
| 113.0 | Application for permit | 113.0 | Application for permit |
| 114.0 | Permits | 114.0 | Permits |
| 115.0 | Conditions of permit | 115.0 | Conditions of permit |
| 116.0 | Demolition of structures | 116.0 | Demolition of structures |
| 117.0 | Moving structures | 117.0 | Moving structures |
| 118.0 | Fees | 118.0 | Fees |
| 119.0 | Certification of use and occupancy | 119.0 | Certification of use and occupancy |
| 120.0 | Posting structures | 120.0 | Posting structures |
| 121.0 | Violations | 121.0 | Violations |
| 122.0 | Stop-work order | 122.0 | Stop-work order |
| 123.0 | Unsafe structures | 123.0 | Unsafe structures |
| 124.0 | Emergency measures | 124.0 | Emergency measures |
| 125.0 | Reserved | 125.0 | Reserved |
| 126.0 | Board of Appeals | 126.0 | Board of Appeals |
| 127.0 | Construction Control | 127.0 | Construction Control |
| 128.0 | Construction Materials Safety Board | 128.0 | Construction Materials Safety Board |

| FOURTH EDITION Table of Contents | | FIFTH EDITION Article Cross Reference | |
|---|---|---|---|
| 129.0 | Activities requiring licenses | 129.0 | Activities requiring licenses |
| 130.0 | Fire-prevention-Fire protection board | 130.0 | Fire-prevention-Fire protection board |
| 131.0 | Reserved | 131.0 | Reserved |
| 140.0 | Validity | 140.0 | Validity |
| | **Article 2 - DEFINITIONS AND CLASSIFICATIONS** | | **Article 2 - DEFINITIONS** |
| 200.0 | General | 200.0 | General |
| 201.0 | General definitions | 201.0 | General definitions |
| | | | **Article 3 - USE GROUP CLASSIFICATION** |
| 202.0 | Use group classification | 301.0 | Classification |
| 203.0 | Use group A, assembly buildings | 302.0 | Use group A, assembly uses |
| 204.0 | Use group B, business buildings | 303.0 | Use group B, business uses |
| | | 304.0 | Use group E, educational uses |
| 205.0 | Use group F, factory and industrial buildings | 305.0 | Use group F, factory and industrial use |
| 206.0 | Use group H, high hazard buildings | 306.0 | Use group H, high hazard uses |
| 207.0 | Use group I, institutional buildings | 307.0 | Use group I, institutional uses |
| 208.0 | Use group M, mercantile buildings | 308.0 | Use group M, mercantile uses |
| 209.0 | Use group R, residential buildings | 309.0 | Use group R, residential uses |
| 210.0 | Use group S, storage buildings | 310.0 | Use group S, storage uses |
| 211.0 | Use group T, temporary and miscellaneous uses | 311.0 | Use group U, Utility and miscellaneous uses |
| 212.0 | Doubtful use classification | 312.0 | Doubtful use classification |
| 213.0 | Mixed use and occupancy | 313.0 | Mixed use and occupancy |
| | | | **Article 4 - TYPE OF CONSTRUCTION CLASSIFICATION** |
| | | 400.0 | General |
| 214.0 | Construction classification | 401.0 | Construction classification |
| 215.0 | Type 1, fireproof construction | 402.0 | Type 1 construction |
| 216.0 | Type 2, noncombustible construction | 403.0 | Type 2 construction |
| 217.0 | Type 3, exterior masonry wall construction | 404.0 | Type 3 construction |
| 218.0 | Type 4, frame construction | 405.0 | Type 4 construction |
| | | 406.0 | Type 5 construction |

| FOURTH EDITION Table of Contents | | FIFTH EDITION Article Cross Reference | |
|---|---|---|---|
| **Article 3 - GENERAL BUILDING LIMITATIONS** | | **Article 5 - GENERAL BUILDING LIMITATIONS** | |
| 300.0 | General | 500.0 | Scope |
| | | 501.0 | General area and height limitations |
| 301.0 | Fire limits | 900.0 | General |
| 302.0 | Restriction within the fire limits | 906.0 | Exterior walls |
| 303.0 | Restrictions outside fire limits | 906.0 | Exterior walls |
| 304.0 | Existing buildings | 505.0 | Existing buildings |
| 305.0 | General area and height limitations | 501.0 | General area and height limitations |
| 306.0 | Area exceptions | 502.0 | Area modifications |
| 307.0 | Unlimited areas | 504.0 | Unlimited areas |
| 308.0 | Height exceptions | 503.0 | Height modifications |
| 309.0 | Street encroachments | 506.0 | Street encroachments |
| 310.0 | Permissible street projections | 507.0 | Permissible street projections |
| 311.0 | Permissible yard and court encroachments | 508.0 | Permissible yard and court encroachments |
| 312.0 | Special and temporary projections | 509.0 | Special and temporary projections |
| 313.0 | Awnings and canopies | 510.0 | Awnings and canopies |
| 314.0 | Temporary structures | 511.0 | Temporary structures |
| 315.0 | Accessibility for the physically handicapped | 512.0 | Physically handicapped and aged |
| | | 513.0 | Special historic buildings and districts |
| **Article 4 - SPECIAL USE AND OCCUPANCY REQUIREMENTS** | | **ARTICLE 6 - SPECIAL USE AND OCCUPANCY REQUIREMENTS** | |
| 400.0 | General | 600.0 | General |
| 401.0 | Explosion hazards | 618.0 | Explosion hazards |
| 402.0 | Volatile flammables | 619.0 | Flammable and combustion liquids |
| 403.0 | Fire prevention codes | 627.0 | Fire prevention codes |
| 404.0 | Special permits and certificates of fitness | 628.0 | Special permits and certificates of fitness |
| 405.0 | Existing buildings | 629.0 | Existing buildings |
| 406.0 | Liquefied petroleum gases | 620.0 | Liquified petroleum gas facilities |
| 407.0 | Pyroxylin plastics | 603.0 | HPM use facilities |

| FOURTH EDITION<br>Table of Contents | FIFTH EDITION<br>Article Cross Reference |
|---|---|
| 408.0 Use and storage of flammable film | 613.0 Motion picture projection rooms, screening rooms and sound stages |
| 409.0 Use and storage of combustible fibers | 306.0 Use group H, high hazard uses (Table 306.2) |
| 410.0 Combustible dusts, grain processing and storage | 617.0 Combustible dusts, grain processing and storage |
| 411.0 Paint spraying and spray booths | 622.0 Paint spraying and spray booths |
| 412.0 Dry cleaning establishments | 603.0 HPM use facilities |
| 413.0 Private garages | 608.0 Private garages |
| 414.0 Public garages | 609.0 Public garages |
| 415.0 Motor fuel service stations | 609.0 Public garages (also see definition for public garage, Article 2) |
| 416.0 Motor vehicle repair shops | 609.0 Public garage (also see definitions for public garage, Article 2) |
| 417.0 Places of public assembly | 615.0 Stages and Platforms<br>806.0 Occupancy load<br>808.0 Exit capacity<br>826.0 Aisles<br>302.0 Use group A-1<br>Art. 8 Egress |
| 418.0 Public assembly other than theaters | 302.0 Use group A-4<br>806.0 Occupancy load<br>808.0 Exit capacity<br>826.0 Aisles<br>Art. 8 Egress |
| 419.0 Amusement parks | 630.0 Amusement parks |
| 420.0 Stadiums and grandstands | 612.0 Bleachers, grandstands and folding or telescopic seating |
| 421.0 Drive in motion picture theaters | Drive-in motion picture theaters are controlled by local or state authority having jurisdiction over highways and streets. |
| 422.0 Tents, air-supported structures and other temporary structures | 604.0 Membrane structures and<br>626.0 Temporary structures |
| 423.0 Parking lots | MGL c.148, s.56 (also see parking structures) |
| 424.0 Group residence | 631.0 Group residence |
| 425.0 Motels | 309.2 Use Group R-1 structures |
| 426.0 Radio and television towers | 623.0 Radio and television towers |
| 427.0 Radio and television antennae | 624.0 Radio and television antennae |
| 428.0 Swimming pools | 625.0 Swimming pools |

| FOURTH EDITION Table of Contents | | FIFTH EDITION Article Cross Reference | |
|---|---|---|---|
| 429.0 | Open parking structures | 607.0 | Open parking structures |
| 430.0 | Fallout shelters | | Deleted |
| 431.0 | High rise buildings | 602.0 | High-rise buildings |
| 432.0 | Covered malls | 601.0 | Covered mall buildings |
| 433.0 | Nursing homes, rest homes, charitable homes for the aged, convalescent homes and hospitals | 632.0 | Nursing homes...etc. |
| 434.0 | Day care centers | 633.0 | Child day care centers |
| 435.0 | Summer camps for children | 634.0 | Summer camps for children |
| 436.0 | Historic buildings | 635.0 | Historic buildings |
| 437.0 | Open wells | 606.0 | Open wells |
| 438.0 | Limited Group Residences | 636.0 | Limited group residences |
| 439.0 | Detoxification Facilities | 637.0 | Detoxification Facilities |
| 440.0 | Group Dwelling Units | 638.0 | Group dwelling units |
| **Article 5 - LIGHT, VENTILATION AND SOUND TRANSMISSION CONTROL** | | **Article 7 - INTERIOR ENVIRONMENTAL REQUIREMENTS** | |
| 500. | General | 700.0 | General |
| 501. | Plans and specifications | 701.0 | Plans and specifications |
| 502. | Standards of natural light | 704.1 | Natural light |
| 503. | Standards of natural ventilation | 706.0 | Natural ventilation |
| 504. | Artificial light and ventilation | 705.1<br>707.1 | Artificial light<br>Mechanical ventilation |
| 505.0 | Existing buildings | 702.0 | Existing buildings |
| 506.0 | Natural lighting and ventilation of rooms | 704.0<br>706-0 | Natural light<br>Natural ventilation |
| 507.0 | Lighting and venting of special spaces | 709.0 | Ventilation of special spaces |
| 508.0 | Basements and cellars | 703.0 | Light and Ventilation Required |
| 509.0 | Business and work rooms | 703 through 707 | |
| 510.0 | Assembly rooms | 703 through 707 | |
| 511.0 | Rooms of institutional buildings | 703 through 707 | |
| 512.0 | Bath and toilet rooms | 703.1 | Light and Ventilation Required |
| 513.0 | Stairways and exitways | 704.3 | Natural light, stairways |
| 514.0 | Required fresh air supply | 707.1 | Mechanical ventilation |

| FOURTH EDITION Table of Contents | | FIFTH EDITION Article Cross Reference | |
|---|---|---|---|
| 515.0 | Ventilation of shafts other than elevator and dumbwaiter hoistways | | No comparable section |
| 516.0 | Courts | 710.0 | Courts |
| 517.0 | Rear yards | 711.0 | Rear yards |
| 518.0 | Obstruction of courts and yards | 712.0 | Obstruction of courts and yards |
| 519.0 | Fire emergency ventilating system | 1019.0 | Smoke Control Systems |
| 520.0 | Reserved | | N/A |
| 521.0 | Window cleaning safeguards | 713.0 | Window cleaning safeguards |
| 522.0 | Sound transmission control in residential buildings | 714.0 | Sound transmission control in residential buildings |
| | **Article 6 - MEANS OF EGRESS** | | **Article 8 - MEANS OF EGRESS** |
| 600.0 | General | 800.0 | General |
| 601.0 | Plans and specifications | 801.0 | Plans and specifications |
| 602.0 | Use and occupancy requirements | 802.0 | Use and occupancy requirements |
| 603.0 | Air-conditioned buildings | 803.0 | Prohibited use |
| 604.0 | Existing buildings | 804.0 | Existing buildings |
| 605.0 | Maintenance of exitways | 805.0 | Maintenance of exits |
| 606.0 | Occupancy load | 806.0 | Occupant load |
| 607.0 | Types and location of exitways | 807.0 | Types and location of means of egress |
| 608.0 | Capacity of exits | 808.0 | Capacity of egress components |
| 609.0 | Number of exitways | 809.0 | Number of exits |
| 610.0 | Exitway access passageways and corridors | 810.0 | Exit access passageways and corridors |
| 611.0 | Grade passageways used as an exitway element | 811.0 | Level of exit discharge passageways used as an exit element |
| 612.0 | Means of egress doorways | 812.0 | Means of egress doorways |
| 613.0 | Revolving doors | 813.0 | Revolving doors |
| 614.0 | Horizontal exits | 814.0 | Horizontal exits |
| 615.0 | Egress ramps | 815.0 | Ramps |
| 616.0 | Interior exitway stairways | 816.0 | Interior stairways |
| 617.0 | Access to roof | 817.0 | Access to roof |
| 618.0 | Smokeproof enclosures | 818.0 | Smokeproof enclosures |
| 619.0 | Exterior exitway stairways | 819.0 | Exterior stairways |

| FOURTH EDITION<br>Table of Contents | FIFTH EDITION<br>Article Cross Reference |
|---|---|
| 620.0 Moving exitway stairways | 820.0 Escalators and moving walks |
| 621.0 Fire escapes | 821.0 Fire escapes |
| 622.0 Slidescapes | 822.0 Slidescapes |
| 623.0 Exit signs and lights | 823.0 Exit signs and lights |
| 624.0 Means of egress lighting | 824.0 Means of egress lighting |
| 625.0 Hazards to means of egress | 825.0 Hazards to means of egress |
| **Article 7 - STRUCTURAL AND FOUNDATION LOADS AND STRESSES** | **Article 11 - STRUCTURAL LOADS** |
| 700.0 General | 1100.0 General<br>1101.0 Plans and Specifications |
| 701.0 Design safe load | 1102.0 Design safe load |
| 702.0 Test safe load | 1102.2 Load tests |
| 703.0 Design live load | 1103.0 Design live load |
| 704.0 Design dead load | 1104.0 Design dead load |
| 705.0 Existing buildings | 1105.0 Existing buildings |
| 706.0 Uniformly distributed live load | 1106.0 Uniformly distributed live loads |
| 707.0 Concentrated loads | 1107.0 Concentrated loads |
| 708.0 Impact loads | 1108.0 Impact loads |
| 709.0 Special loads | 1109.0 Special loads |
| 710.0 Special consideration for roofs | 1110.0 Roof loads |
| 711.0 Snow load | 1111.0 Snow load |
| 712.0 Wind load | 1112.0 Wind load |
| 713.0 Wind load on structures as a whole, and on vertical surfaces of enclosed or partially enclosed structures | 1112.5 Wind loads on structures as a whole |
| 714.0 Wind load on roofs | 1112.7 Wind loads on roofs |
| 715.0 Special configurations, shapes and considerations for wind forces | 1112.12 Wind loads on signs, towers, exposed framing, tanks, stacks and chimneys |
| 716.0 Earthquake load | 1113.0 Earthquake loads |
| 717.0 Combination of loads | 1114.0 Combination of loads |
| 718.0 Live load reduction | 1115.0 Live load reduction |
| 719.0 Strength criteria | 1304.0 Design strengths of materials |

| FOURTH EDITION Table of Contents | FIFTH EDITION Article Cross Reference |
|---|---|
| | **Article 12 - FOUNDATION SYSTEMS AND RETAINING WALLS** |
| | 1200.0 General |
| 720.0 Bearing pressure on foundation materials | 1201.0 Bearing pressures on foundation materials |
| 721.0 Subsurface explorations | 1202.0 Subsurface explorations |
| 722.0 Bearing tests, pile loads tests and settlement analyses | 1203.0 Soil bearing tests |
| 723.0 Foundations bearing on soil or rock | 1204.0 Allowable foundation loads |
| 724.0 Depth of footings | 1205.0 Depth of footing |
| 725.0 Footing design | 1206.0 Footing design |
| 726.0 Timber footings, wood foundations | 1207.0 Timber footings and wood foundations |
| 727.0 Steel grillages | 1208.0 Steel grillages |
| 728.0 Concrete footings | 1209.0 Concrete footings |
| 729.0 Masonry unit footings | 1210.0 Masonry unit footings |
| 730.0 Floating foundations | 1211.0 Mat, raft and float foundations |
| 731.0 Foundation piers | 1212.0 Pier foundations |
| 732.0 Pile foundations | 1213.0 Pile foundations |
| 733.0 Corrosion protection | 1213.3 Protection of pile materials |
| 734.0 Allowable protection | 1214.0 Allowable pile loads |
| 735.0 Timber piles | 1219.0 Timber piles |
| 736.0 Precast concrete piles | 1218.0 Precast concrete piles |
| 737.0 Cast-in-place concrete piles | 1217.0 Cast-in-place concrete piles |
| 738.0 Concrete-filled pile and tapered tubular piles | 1216.0 Concrete-filled steel pipe and tapered tubular piles |
| 739.0 Concrete-filled pipe and steel core caissons | 1221.0 Concrete-filled pipe with steel core caissons |
| 740.0 Structural steel piles | 1215.0 Structural steel piles |
| 741.0 Composite piles | 1220.0 Composite piles |
| 742.0 Special piles and caissons | 1217.2 Small diameter grouted piles |
| 743.0 Special piles and caissons | 1213.2 Special piles and caissons |
| 744.0 Design requirements for construction in floodplains | 2102.0 Flood resistant construction |
| | 1222.0 Foundation walls |

| FOURTH EDITION<br>Table of Contents | FIFTH EDITION<br>Article Cross Reference |
|---|---|
| | 1223.0 Retaining walls |
| | 1224.0 Waterproofing and dampproofing |
| | |
| **Article 8 - PART A - MATERIALS AND TESTS** | **Article 13 - MATERIALS AND TESTS** |
| 800.0 General | 1300.0 General |
| 801.0 Basic classification of construction materials | 1300.5 Basic classification of construction materials |
| 802.0 Tests | 1303.0 Tests |
| 803.0 Conditions of acceptance | 1305.0 Conditions of acceptance |
| 804.0 Approvals | 1306.0 Approvals |
| 805.0 Masonry construction units | 1401.0 Masonry construction units |
| 806.0 Brick units | 1402.0 Brick units |
| 807.0 Structural clay tile units | 1403.0 Structural clay tile units |
| 808.0 Glazed clay masonry units | 1404.0 Glazed clay masonry units |
| 809.0 Concrete units | 1405.0 Concrete units |
| 810.0 Gypsum units | 1604.2 Limitations |
| 811.0 Structural glass block units | 1420.0 Structural glass block units |
| 812.0 Architectural terra cotta | 1406.0 Architectural terra cotta |
| 813.0 Natural stone | 1407.0 Natural stone |
| 814.0 Cast stone | 1408.0 Cast stone |
| 815.0 Mortar for masonry | 1409.0 Mortar and grout for masonry |
| 816.0 Concrete aggregates | 1502.3 Aggregates |
| 817.0 Ready-mix concrete | 1504.3.1 Ready-mixed concrete |
| 818.0 Structural wood glues | 1708.0 Structural glued-laminated timber and built-up wood construction |
| 819.0 Interior lathing and plastering | 1601.0 Interior lathing and gypsum plastering<br>1602.0 Portland cement stucco lathe and plaster |
| 820.0 Exterior lathing and stucco | 1602.0 Portland cement stucco lath and plaster |
| 821.0 Plastering materials | 1602.0 Table 1601, Plaster materials & accessories |
| 822.0 Plaster bases | 1603.4 Gypsum board materials |
| 823.0 Fiber boards | 1603.4 Gypsum board materials<br>1709.0 Fiber boards |

| FOURTH EDITION<br>Table of Contents | FIFTH EDITION<br>Article Cross Reference |
|---|---|
| 824.0 Plywood | 1603.0.4 Gypsum board materials<br>1710.0 Plywood |
| 825.0 Wallboards and sheathing | 1603.0.4 Gypsum board materials, Table 1603<br>1711.0 Particle board |
| **Article 8 - Part B - STEEL, MASONRY, CONCRETE, GYPSUM AND LUMBER CONSTRUCTION** | **Article 14 - MASONRY**<br>**Article 15 - CONCRETE**<br>**Article 16 - GYPSUM AND PLASTER**<br>**Article 17 - WOOD**<br>**Article 18 - STEEL**<br>**Article 19 - LIGHTWEIGHT METAL ALLOYS** |
| 826.0 Structural steel construction | 1801.0 Structural steel construction |
| 827.0 Formed steel construction | 1802.0 Formed steel construction |
| 828.0 Steel joist construction | 1803.0 Open web steel joist construction |
| 829.0 Reinforcing steel | 1804.0 Reinforcing steel |
| 830.0 Cast steel construction | 1805.0 Cast steel construction |
| 831.0 Deleted | N/A |
| 832.0 Special steels | 1807.0 Special steel and steel cable structural systems |
| 833.0 Light weight metal alloys | 1900.0 General<br>1901.0 Materials |
| 834.0 Masonry wall construction | 1410.0 Masonry wall construction |
| 835.0 Bonding of walls | 1411.0 Bonding of walls |
| 836.0 Lateral bracing of walls | 1412.0 Lateral bracing of walls |
| 837.0 Chases and recesses in bearing walls | 1413.0 Chases and recesses in bearing walls |
| 838.0 Corbeled and projected masonry | 1415.0 Corbeled and projected masonry |
| 839.0 Bearing on hollow unit walls | 1416.0 Bearing on hollow unit walls |
| 840.0 Plain concrete | 1500.2 Plain concrete |
| 841.0 Reinforced concrete | 1506.0 Details of reinforcement |
| 842.0 Deleted | N/A |
| 843.0 Deleted | N/A |
| 844.0 Deleted | N/A |
| 845.0 Deleted | N/A |
| 846.0 Concrete-filled pipe columns | 1507.0 Concrete-filled pipe columns |
| 847.0 Pneumatic concrete | 1508.0 Shotcrete |
| 848.0 Minimum concrete dimensions | 1506.0 Details of reinforcement |

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| 851.0 Reinforced masonry | 1418.0 Reinforced masonry |
| | 1419.0 Unreinforced Masonry |
| | 1421.0 Isolated piers |
| | 1422.0 Dry - stacked, surface-boarded masonry walls |
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| 852.0 Lumber and timber construction | 1701.0 Lumber and timber construction |
| 853.0 Heavy timber type construction | 1702.0 Heavy timber type construction |
| 854.0 Wood frame construction | 1704.0 Wall construction<br>1705.0 Floor construction<br>1706.0 Roof construction |
| 855.0 Stress skin panels | 1707.0 Stress skin panels |
| 856.0 Structural glued laminated timber and built-up wood construction | 1708.0 Structural glued-laminated timber and built-up wood construction |
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| 858.0 Protection of wall openings | 907.0 Exterior opening protectives |
| 859.0 Fire access panels | 1002.15 Windowless story |
| 860.0 Structural glass block walls - | 1420.0 Structural glass block walls |
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| 866.0 Thickness of solid masonry walls | 1410.0 Masonry wall construction |
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| 868.0 Deleted | N/A |
| 869.0 Foundation walls | 1222.0 Foundation walls |
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| 871.0 Deleted | N/A |

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| 873.0 Deleted | N/A |
| 874.0 Protection against decay and termites | 1712.0 Protection against decay and termites |
| 875.0 Delete, add Reserved | N/A |
| 876.0 Thermal insulating materials | 922.4 & 2002.1 Foam plastics<br>928.0 Thermal & insulating materials<br>1709.3 Fiberboards for roof<br>1709.4 Fiberboards for wall |
| **Article 9 - FIRERESISTIVE CONSTRUCTION REQUIREMENTS** | **Article 9 - FIRERESISTIVE CONSTRUCTION** |
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| 902.0 Fire hazard classification | 902.0 Fire hazard classification |
| 903.0 Fireresistance tests | 903.0 Fire tests |
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| 1006.0 Vent systems | ▪ |
| 1007.0 Fireplaces | 2400.0 Masonry Fireplaces |
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